

**PROCEEDINGS OF VILLAGE OF FRANKLIN
WASTE WATER MANAGEMENT WORKSHOP
MONDAY, NOVEMBER 8, 2010, 7:00 PM
FRANKLIN VILLAGE HALL – BROUGHTON HOUSE
32325 FRANKLIN ROAD, FRANKLIN, MICHIGAN 48025**

I. CALL TO ORDER

The meeting was called to order by President Gallasch at 7:04 PM at the Franklin Village Hall, Franklin, Michigan.

II. ROLL CALL

Present: Mike Seltzer, Brian Gettel, Lew Eads, Fred Gallasch, Bill Lamott, Steve Rosenthal, Jim Kochensparger

Absent: None

Also Present: Tom Morrow, Village Treasurer; Amy Sullivan, Village Administrator; Eileen Pulker, Village Clerk
Philip Sanzica, Chief Engineer and Lloyd Lewis, Pump Maintenance Supervisor, from Oakland County Water Resources Commission


III. PRESENTATION

Lewis provided a Powerpoint presentation covering the Development of Franklin's system 1992-2010, comparing gravity and pressure sewers, the main causes of pump/system failures, field/shop service, cost mitigation strategies. Lewis addressed questions about making the system work better, reducing costs, preventative maintenance, and the status of alarm dialers.

IV. ADJOURNMENT

The Workshop adjourned at 8:00 PM.

Respectfully Submitted,


Eileen Pulker, Village Clerk

H. Frederick Gallasch, President

Franklin Village Pressure Sewer Overview

Franklin Village Council Chamber
November 8, 2010 – 7:00 pm



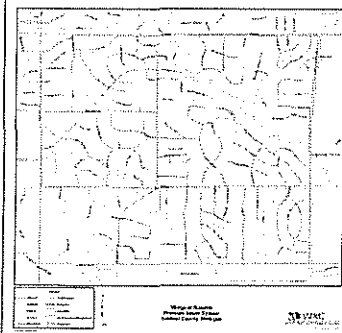
Introductions

- Philip Sanzica, P.E. Chief Engineer
- Lloyd Lewis, Supervisor II, Pump Maintenance

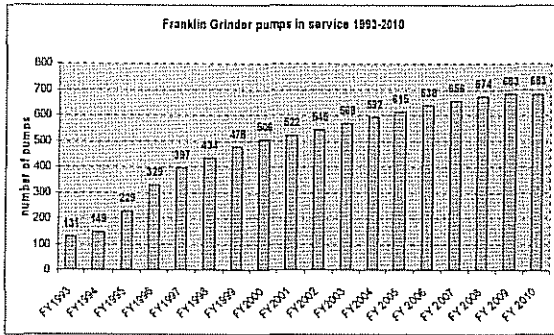
Agenda

- Development of system 1992-2010
- Compare gravity and pressure sewers
- Main causes of pump/system failure
- Field/shop service
- Cost mitigation strategies
- Address questions posed by Franklin
- Additional Questions
- Adjourn

Collection system

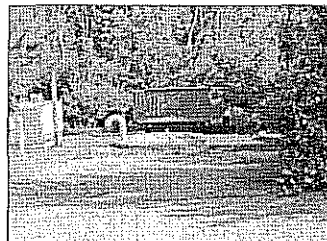


When were grinder pumps installed in Franklin?



How is a pressure sewer different from a gravity sewer?

- Multiple lift stations needed



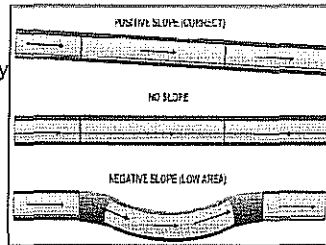
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- Multiple lift stations needed
- Excavation necessary for pipe



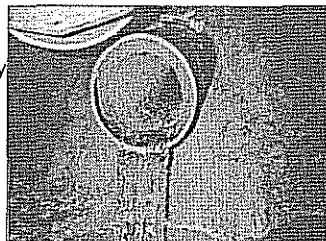
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- Multiple lift stations needed
- Excavation necessary for pipe
- Slope of pipe critical



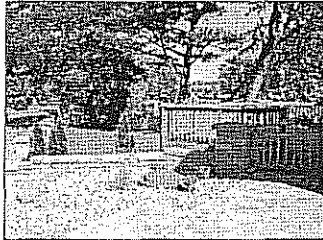
How is a pressure sewer different from a gravity sewer?

- Multiple lift stations needed
- Excavation necessary for pipe
- Slope of pipe critical
- Cyclical cleaning required



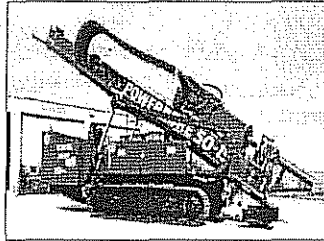
How is a pressure sewer different from a gravity sewer?

- Each customer has a grinder pump



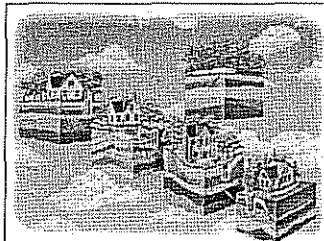
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- Each customer has a grinder pump
- Pipe can be directionally drilled



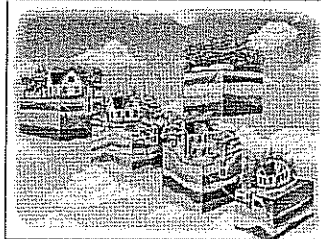
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- Each customer has a grinder pump
- Pipe can be directionally drilled
- Minimal grade issues



How is a pressure sewer different from a gravity sewer?

- Each customer has a grinder pump
- Pipe can be directionally drilled
- Minimal grade issues
- System is self-cleaning



Why was a pressure sewer system selected for Franklin?

- System installed with minimal disruption to residents/businesses
- Preserves unique historical character of Franklin
- System well suited to topography of Franklin
- Designed for staged growth
- Ground water infiltration avoided

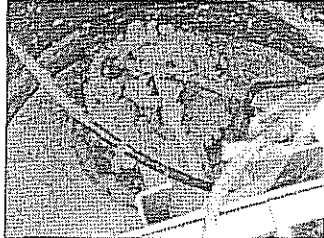
What are the main causes of pump/system failures?

- FOG (fats-oils-grease)



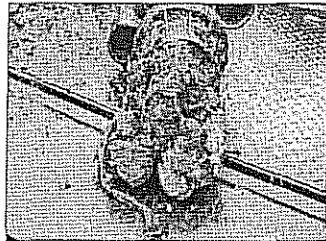
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- FOG (fats-oils-grease)
- Cloth/stringy material



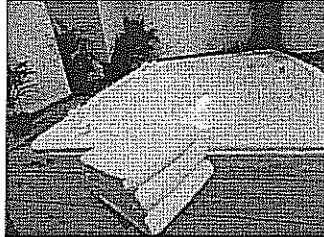
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- Cloth/stringy material
- Construction and remodeling materials



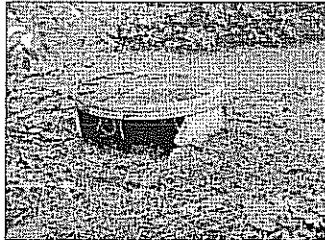
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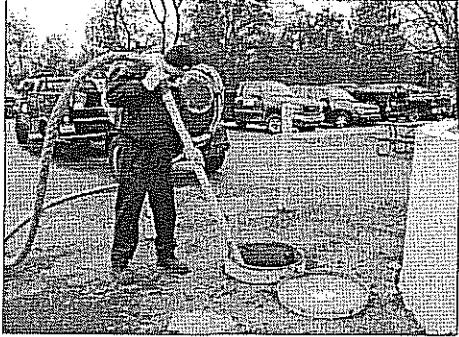
- FOG (fats-oils-grease)
- Cloth/stringy material
- Construction and remodeling materials
- High volume water discharge
- Damage by homeowner or contractor



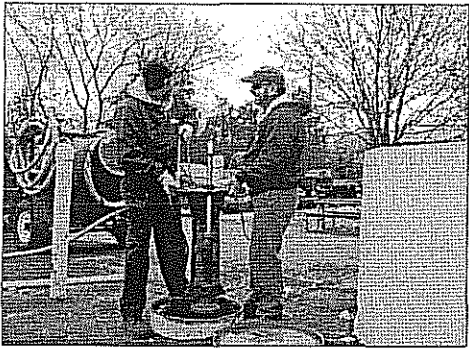
Field/Shop Service

- Service personnel available for calls 24/7
- Two person field service crew
- Factory trained staff
- Inventory of spare parts and rebuilt pumps maintained by OCWRC
- Shop service performed on straight time

Field Service



Field Service



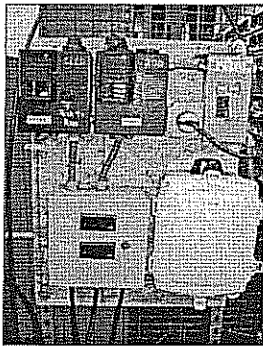
Field Service



Shop Service



Shop Service



Cost Mitigation Already in Place

- OCWRC bills customers for misuse
- OCWRC calls customers prior to dispatch
- OCWRC is disconnecting dialer systems
- Two-tiered rate structure
- 20 year reserve for pump replacement

Questions from Franklin

Are there options to make the system work better or to reduce costs?

- Reduce system misuse/damage
 - Can Your Grease
 - Keep objectionable material out of the system
 - Use care when excavating on your property
 - Keep commercial mowers away
- More interaction between Franklin and OCWRC during design phase

Questions from Franklin

What kind of preventative maintenance is performed on the system?

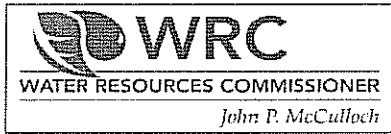
- Grinder pump service interval is 8-12 years
- Air release valves checked on a 3 year cycle
- System valves exercised on a 3 year cycle
- Low volume branch sewers are cleaned as required

Questions from Franklin

The real answers on the status of the alarm dialers

- Are they cost effective?
- What happens when an alarms comes in and clears immediately?
- Are dialers compatible with CATV modems?
- Is there more than one way to receive an alarm from a pump?
- Can a grinder alarm connect to a homeowner's alarm system/service?

Questions?



<http://www.oakgov.com/water>
